Have it all with our broad range of hard drives

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Internal & External Hard Drives Product Reference Guide

2012 #24

HGST
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Internal Hard Drives Product Highlights

Deskstar™ 7K4000
Industry's highest capacity with excellent performance for desktop computing

The Deskstar 7K4000 offers the industry's highest hard drive capacity at an enormous four terabytes of storage with 7200 RPM performance in a standard 3.5-inch form factor. This drive uses Advanced Format, which increases the sector size on HDDs from 512 bytes to 4096 (4K) bytes, thereby increasing capacities and improving error correcting capabilities.

Deskstar 5K4000
4TB of energy-efficient, quiet PC storage

The Deskstar 5K4000 hard drive provides an enormous 4TB capacity and features innovative CoolSpin technology to deliver a greater level of power efficiency and quiet operation for energy-conscious, environmentally-friendly computers. This drive uses Advanced Format, which increases the sector size on HDDs from 512 bytes to 4096 (4K) bytes, thereby increasing capacities and improving error correcting capabilities.

Travelstar™ 5K1000
One terabyte of mobile storage for notebook PCs and other applications

Travelstar 5K1000 is a 5400 RPM, 500GB/platter, 2.5-inch hard drive available in 640GB, 750GB and 1TB models. This standard 9.5mm, two-disk design, intended for use in notebook PCs, external storage, gaming consoles and other mobile applications, leverages Advanced Format, which increases the physical sector size on hard drives from 512 bytes to 4096 (4K) bytes to increase drive capacities and improve error correction capabilities.

Travelstar Z7K500
Slim, high-capacity storage for notebook PCs and mobile applications

Travelstar Z7K500 is the second generation 7mm, 5400 and 7200 RPM 2.5-inch hard drive from Hitachi, with capacities ranging from 250GB to 500GB and the second generation Advanced Format drive.

Ultrastar™ C10K900
Industry-leading power and performance for the Enterprise

Ultrastar C10K900 is a 2.5-inch 10,000 RPM hard drive that leads the industry with up to 18% faster performance and up to 28% lower power than the competition.

Ultrastar 15K600
The all-in-one enterprise drive delivers performance and capacity in one package

Combines ultimate performance with high capacity in the same drive. The 6Gb/s Serial Attached SCSI (SAS) and 4Gb/s Fibre Channel Arbitrated Loop (FCAL) interfaces support the reliability required in the most demanding enterprise computing environments.

Ultrastar 7K4000
The world's first 4TB enterprise drive

Hitachi raises the bar for enterprise-class capacity-optimized drives.
Hitachi is consistently ranked top in product quality and reliability by OEMs around the world, and we've proved it by offering the SATA Hitachi Ultrastar 7K3000 drives at 2.0 million hours MTBF -- the highest in the industry for 7,200 RPM enterprise-class drives. Ultrastar 7K3000 SAS available in 3TB/2TB configurations.

Ultrastar SSD400S.B
Performance and endurance for the enterprise

2.5-inch SAS 6Gb/s SLC NAND solid state drive. Reaches speeds up to 100 times faster than HDDs and endurance up to 5 times higher than MLC-based products.

Ultrastar SSD400S
Sets the standard for enterprise SLC performance

2.5-inch 6Gb and 3.5-inch 4Gb FCAL drives. Sequential performance of 516/458MB/s read and write targeted for real-time transaction processing for improve productivity and operational efficiency for high write applications.

Ultrastar SSD400M
Highest sequential performance in an MLC based product.

2.5-inch SAS 6Gb drive with superior reliability enterprise grade 25nm (30k PE) 10 writes per day 5 yr warranty with exclusive power-loss data management.

Preparing for the Big 4TB

Introduction of High-Capacity Hard Drives

While manufacturers begin introducing the latest generation of high-capacity drives, the industry has been working to resolve known capacity addressing limitations that date back to original design of the PC. These limitations are caused by 32-bit definitions used for sector size and logical block addresses (LBA)[1].

Now that hard drives with capacities greater than or equal to (≥) 2.2 terabytes are available, users will need to implement a combination of operating systems, BIOS, drive partition tables, and HDD drivers that support >2.2TB in order to gain trouble-free access to the higher capacities offered. When working in legacy environments, more effort will be required to ensure that all components are capable of supporting high-capacity drives.

High-Capacity-Aware Operating Systems Summary

The following table is a summary of operating systems support for high-capacity hard drives. All configurations assume that partitioning is done using GPT partition tables (rather than MBR)

Operating System	4TB as Boot Disk	4TB as Data Disk
Microsoft Windows XP (x32)	No	No
Microsoft Windows Vista SP1 or later x32	No	Yes
Microsoft Windows Vista SP1 or later x64	Yes, with EFI	Yes
Microsoft Windows 7 (x32)	No	Yes
Microsoft Windows 7 (x64)	Yes, with EFI	Yes
Intel-based Mac OS X 10.6+	Yes	Yes
Linux UBUNTU 8.04+/SUSE x32, x64	Yes	Yes

[1] 32 bit limitation: 512 byte sectors x 2^32 bits = 2.199 TB

Online tools

Check out our on-line tools specifically designed to help you understand our latest high-capacity products

www.hgst.com/internal-drives/above-2tb

Additional sources of information:

Mac OS X
Technical Note TN2166
Secrets of the GPT

http://developer.apple.com/librarymac/#technotes/tn2006/tn2166.html

Microsoft
Windows and GPT FAQ

www.microsoft.com/whdc/device/storage/GPT_FAQ.mspx

Unified Extensible
Firmware Interface Forum

www.efi.org

Ultrastar: Proven reliability to help protect data in mission-critical applications. Stable design for fast and easy integration. Rotational Vibration Safeguard technology for great performance in multi-drive designs.

Product name	Model number	Part number/Alternate part numbers	Capacity	Interface	Form factor	RPM	Buffer	Other information
Ultrastar 7K4000	HUS724040ALE640	0F14683	4TB	SATA 6Gb/s	3.5-inch	7200	64MB	
	HUS724030ALE640	0F14684	3TB	SATA 6Gb/s	3.5-inch	7200	64MB	
	HUS724020ALE640	0F14685	2TB	SATA 6Gb/s	3.5-inch	7200	64MB	
Ultrastar 7K3000	HUA723030ALA640	0F12456	3TB	SATA 6Gb/s	3.5-inch	7200	64MB	2.0 million hours MTBF - New Q1 2011
	HUA723020ALA640	0F12455	2TB	SATA 6Gb/s	3.5-inch	7200	64MB	2.0 million hours MTBF - New Q1 2011
	HUA723030ALA641	OF15325	3TB	SATA 6Gb/s	3.5-inch	7200	64MB	Bulk Data Encryption - New Q1 2011
	HUA723020ALA641	OF15325	2TB	SATA 6Gb/s	3.5-inch	7200	64MB	Bulk Data Encryption - New Q1 2011
	HUA723030ALA640	0F12457	3TB	SATA 3Gb/s	3.5-inch	7200	64MB	2.0 million hours MTBF - New Q1 2011
	HUA723020ALA640	0F12458	2TB	SATA 3Gb/s	3.5-inch	7200	64MB	2.0 million hours MTBF - New Q1 2011
	HUS723030ALS640	0B26311	3TB	SAS 6Gb/s	3.5-inch	7200	64MB	2.0 million hours MTBF - New Q3 2011
	HUS723020ALS640	0B26312	2TB	SAS 6Gb/s	3.5-inch	7200	64MB	2.0 million hours MTBF - New Q3 2011
	HUS723030ALS641	0B26313	3TB	SAS 6Gb/s	3.5-inch	7200	64MB	TCG-Enterprise-A- New Q3 2011
	HUS723020ALS641	0B26314	2TB	SAS 6Gb/s	3.5-inch	7200	64MB	TCG-Enterprise-A- New Q3 2011
Ultrastar A7K2000	HUA722020ALA330	0F10452	2TB	SATA 3Gb/s	3.5-inch	7200	32MB	
	HUA722020ALA331	0F10937	2TB	SATA 3Gb/s	3.5-inch	7200	32MB	Bulk Data Encryption
	HUA722010CLA330	0A39289	1TB	SATA 3Gb/s	3.5-inch	7200	32MB	
	HUA722050CLA330	0F11000	500GB	SATA 3Gb/s	3.5-inch	7200	32MB	
Ultrastar C10K900	HUC109090CSS600	0B26014	900	SAS	2.5-inch	10K	64MB	
	HUC109045CSS600	0B26012	450	SAS	2.5-inch	10K	64MB	
	HUC109030CSS600	0B26011	300	SAS	2.5-inch	10K	64MB	
	HUC109090CSS601	0B27257	900	SAS	2.5-inch	10K	64MB	TCG
	HUC109060CSS601	0B27256	600	SAS	2.5-inch	10K	64MB	TCG
	HUC109060CSS600	0B26013	600	SAS	2.5-inch	10K	64MB	
	HUC109045CSS601	0B27255	450	SAS	2.5-inch	10K	64MB	TCG
	HUC109030CSS601	0B27254	300	SAS	2.5-inch	10K	64MB	TCG
Ultrastar 15K600	HUS156060VLS600	0B23663	600GB	SAS 6Gb/s	3.5-inch	15K	64MB	
	HUS156045VLS600	0B23662	450GB	SAS 6Gb/s	3.5-inch	15K	64MB	
	HUS156030VLS600	0B23661	300GB	SAS 6Gb/s	3.5-inch	15K	64MB	
	HUS156060VLF400	0B23666	600GB	FCAL 4Gb/S	3.5-inch	15K	64MB	
	HUS156045VLF400	0B23665	450GB	FCAL 4Gb/S	3.5-inch	15K	64MB	
	HUS156030VLF400	0B23664	300GB	FCAL 4Gb/S	3.5-inch	15K	64MB	
	HUS156060VLS601	0B24769	600GB	SAS 6Gb/s	3.5-inch	15K	64MB	Bulk Data Encryption
	HUS156045VLS601	0B24768	450GB	SAS 6Gb/s	3.5-inch	15K	64MB	Bulk Data Encryption
	HUS156030VLS601	0B24767	300GB	SAS 6Gb/s	3.5-inch	15K	64MB	Bulk Data Encryption
	HUS156060VLF401	0B24772	600GB	FCAL 4Gb/S	3.5-inch	15K	64MB	Bulk Data Encryption
	HUS156045VLF401	0B24771	450GB	FCAL 4Gb/S	3.5-inch	15K	64MB	Bulk Data Encryption
	HUS156030VLF401	0B24770	300GB	FCAL 4Gb/S	3.5-inch	15K	64MB	Bulk Data Encryption
Ultrastar 15K450	HUS154545VLF400	0B22888	450GB	FC 4Gb/s	3.5-inch	15K	16MB	Suitable for mission-critical 24x7 applications
	HUS154545VLS300	0B22890	450GB	SAS 3Gb/s	3.5-inch	15K	16MB	Suitable for mission-critical 24x7 applications
	HUS154530VLF400	0B23316	300GB	FC 4Gb/s	3.5-inch	15K	16MB	Suitable for mission-critical 24x7 applications
	HUS154530VLS300	0B23318	300GB	SAS 3Gb/s	3.5-inch	15K	16MB	Suitable for mission-critical 24x7 applications

Ultrastar: Proven reliability to help protect data in mission-critical applications. Stable design for fast and easy integration. Rotational Vibration Safeguard technology for great performance in multi-drive designs.

Product name	Model number	Part number/Alternate part numbers	Capacity	Interface	Form factor	RPM	Buffer	Other information
Ultrastar C15K147	HUC151414CSS600	0B23723	147GB	SAS 6Gb/s	2.5-inch	15K	64MB	
	HUC151414CSS601	0B24766	147GB	SAS 6Gb/s	2.5-inch	15K	64MB	Bulk Data Encryption
Ultrastar C10K600	HUC106060CSS600	0B23909	600GB	SAS 6Gb/s	2.5-inch	10K	64MB	Targeted 2 million hours MTBF - New Q4 2010
	HUC106045CSS600	0B25095	450GB	SAS 6Gb/s	2.5-inch	10K	64MB	Targeted 2 million hours MTBF - New Q4 2010
	HUC106030CSS600	0B24153	300GB	SAS 6Gb/s	2.5-inch	10K	64MB	Targeted 2 million hours MTBF - New Q4 2010
	HUC106060CSS601	0B25851	600GB	SAS 6Gb/s	2.5-inch	10K	64MB	Targeted 2 million hours MTBF - New Q4 2010
	HUC106045CSS601	0B25850	450GB	SAS 6Gb/s	2.5-inch	10K	64MB	Targeted 2 million hours MTBF - New Q4 2010
	HUC106030CSS601	0B25849	300GB	SAS 6Gb/s	2.5-inch	10K	64MB	Targeted 2 million hours MTBF - New Q4 2010
Ultrastar C10K300	HUC103030CSS600	0B23695	300GB	SAS 6Gb/s	2.5-inch	10K	64MB	Targeted 1.6 million hours MTBF
	HUC103014CSS600	0B23700	147GB	SAS 6Gb/s	2.5-inch	10K	64MB	Targeted 1.6 million hours MTBF

Deskstar: The Deskstar 7K3000 has a colossal 3TB of capacity, while delivering exceptional blend of power efficiency and performance making it an ideal solution for desktop storage.

Product name	Model number	Part number/Alternate part numbers	Capacity	Interface	Form factor	RPM	Buffer	Other information
Deskstar 7K4000	HDS724040ALE640	0F14681	4TB	SATA 6Gb/s	3.5-inch	7200	64MB	
Deskstar 7K3000	HDS723030ALA640	0F12450	3TB	SATA 6Gb/s	3.5-Inch	7200	64MB	
	HDS723020BLA642	0F12115	2TB	SATA 6Gb/s	3.5-Inch	7200	64MB	
	HDS723015BLA642	0F12114	1.5TB	SATA 6Gb/s	3.5-Inch	7200	64MB	
Deskstar 7K2000	HDS722020ALA330	0F10311	2TB	SATA 3Gb/s	3.5-inch	7200	32MB	
Deskstar 7K1000.C	HDS721010CLA332	0F10383	1TB	SATA 3Gb/s	3.5-inch	7200	32MB	
	HDS721075CLA332	0F10382	750GB	SATA 3Gb/s	3.5-inch	7200	32MB	
	HDS721064CLA332	0A39267	640GB	SATA 3Gb/s	3.5-inch	7200	32MB	
	HDS721050CLA362	0F10381	500GB	SATA 3Gb/s	3.5-inch	7200	16MB	
	HDS721032CLA362	0F13178	320GB	SATA 3Gb/s	3.5-inch	7200	16MB	
	HDS721025CLA382	0F10379	250GB	SATA 3Gb/s	3.5-inch	7200	8MB	
Deskstar 7K1000.D	HDS721010DLE630	0F13180	1TB	SATA 6Gb/s	3.5-inch	7200	32MB	One-Disk
	HDS721075DLE630	0F13179	750GB	SATA 6Gb/s	3.5-inch	7200	32MB	One-Disk
	HDS721050DLE630	0F13178	500GB	SATA 6Gb/s	3.5-inch	7200	32MB	One-Disk
Deskstar 5K4000	HDS5C4040ALE630	OF14696	4TB	SATA 6Gb/s	3.5-Inch	CoolSpin	32MB	CoolSpin Technology
Deskstar 5K3000	HDS5C3030ALA630	0F12460	3TB	SATA 6Gb/s	3.5-Inch	CoolSpin	32MB	CoolSpin Technology
	HDS5C3020ALA632	0F12117	2TB	SATA 6Gb/s	3.5-Inch	CoolSpin	32MB	CoolSpin Technology
	HDS5C3015ALA632	0F12118	1.5TB	SATA 6Gb/s	3.5-Inch	CoolSpin	32MB	CoolSpin Technology
Deskstar 5K1000.B	HDS5C1010DLE630	0F13200	1TB	SATA 6Gb/s	3.5-Inch	CoolSpin	32MB	One-Disk

CinemaStar: Optimized for streaming video applications like surveillance systems and high-definition digital video recorders. Super quiet operation and low-power requirements deliver customer satisfaction and superb field reliability.

Product name	Model number	Part number/Alternate part numbers	Capacity	Interface	Form factor	RPM	Buffer	Other information
Cinemastar 7K1000.D	HCS721010DLE630	0F13185	1TB	SATA 6Gb/s	3.5-inch	7200	32MB	One-Disk
	HCS721075DLE630	0F13184	750GB	SATA 6Gb/s	3.5-inch	7200	32MB	One-Disk
	HCS721050DLE630	0F13183	500GB	SATA 6Gb/s	3.5-inch	7200	32MB	One-Disk
CinemaStar 7K1000.C	HCS721050CLA382	0F10774	500GB	SATA 3Gb/s	3.5-inch	7200	8MB	
	HCS721032CLA382	0F10773	320GB	SATA 3Gb/s	3.5-inch	7200	8MB	
	HCS721025CLA382	0F10772	250GB	SATA 3Gb/s	3.5-inch	7200	8MB	
	HCS721016CLA382	0F10771	160GB	SATA 3Gb/s	3.5-inch	7200	8MB	
CinemaStar 5K2000	HCS5C2020ALA632	0F13415	2TB	SATA 6Gb/s	3.5-inch	CoolSpin	32MB	CoolSpin Technology
	HCS5C2015ALA632	0F13414	1.5TB	SATA 6Gb/s	3.5-inch	CoolSpin	32MB	CoolSpin Technology
Cinemastar 5K1000.B	HCS5C1010DLE630	0F13205	1TB	SATA 6Gb/s	3.5-inch	CoolSpin	32MB	One-Disk
	HCS5C1075DLE630	0F13204	750GB	SATA 6Gb/s	3.5-inch	CoolSpin	32MB	One-Disk
	HCS5C1050DLE630	0F13203	5 00GB	SATA 6Gb/s	3.5-inch	CoolSpin	32MB	One-Disk
CinemaStar 5K1000	HCS5C1050CLA382	0A39418	500GB	SATA 3Gb/s	3.5-inch	CoolSpin	8MB	CoolSpin Technology
	HCS5C1032CLA382	0A39417	320GB	SATA 3Gb/s	3.5-inch	CoolSpin	8MB	CoolSpin Technology
	HCS5C1025CLA382	0A39416	250GB	SATA 3Gb/s	3.5-inch	CoolSpin	8MB	CoolSpin Technology
	HCS5C1016CLA382	0A39415	160GB	SATA 3Gb/s	3.5-inch	CoolSpin	8MB	CoolSpin Technology
Cinemastar 5K750	HCC547550A9E380	0J15261	500GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HCC547564A9E380	0J15262	640GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HCC547575A9E380	0J15263	750GB	SATA 3Gb/s	2.5-inch	5400	8MB	
Cinemastar Z5K500	HCC545050A7E380	0J23375	500GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height for greater design flexibility
	HCC545032A7E380	0J23373	320GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height for greater design flexibility
	HCC545025A7E380	0J23372	250GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height for greater design flexibility
CinemaStar Z5K320	HCC543232A7A380	0J13183	320GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height for greater design flexibility
	HCC543225A7A380	0J13182	250GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height for greater design flexibility
	HCC543216A7A380	0J13181	160GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height for greater design flexibility

Travelstar: All HGST mobile drives feature industry-leading power management for low power and longer battery life. The optional disk-level Bulk Data Encryption technology available on most models helps guard against data loss and piracy.

Product name	Model number	Part number/Alternate part numbers	Capacity	Interface	Form factor	RPM	Buffer	Other information
Travelstar 7K750	HTS727575A9E364	0J12283	750GB	SATA 3Gb/s	2.5-inch	7200	16MB	
	HTS727575A9E361	0J18713	750GB	SATA 3Gb/s	2.5-inch	7200	16MB	Bulk Data Encryption
	HTS727564A9E364	0J12282	640GB	SATA 3Gb/s	2.5-inch	7200	16MB	
	HTS727564A9E361	0J18712	640GB	SATA 3Gb/s	2.5-inch	7200	16MB	Bulk Data Encryption
	HTS727550A9E364	0J12281	500GB	SATA 3Gb/s	2.5-inch	7200	16MB	
	HTS727550A9E361	0J18711	500GB	SATA 3Gb/s	2.5-inch	7200	16MB	Bulk Data Encryption
	HTS727550A9E365	0J18731	500GB	SATA 3Gb/s	2.5-inch	7200	16MB	TCG Opal Encryption
	HTS727564A9E365	0J18732	640GB	SATA 3Gb/s	2.5-inch	7200	16MB	TCG Opal Encryption
	HTS727575A9E365	0J18733	750GB	SATA 3Gb/s	2.5-inch	7200	16MB	TCG Opal Encryption
Travelstar Z7K500	HTS725050A7E630	0J26005	500GB	SATA 6Gb/s	2.5-inch	7200	32MB	NEW Q1 2012
	HTS725050A7E631	0J26045	500GB	SATA 6Gb/s	2.5-inch	7200	32MB	Bulk Data Encryption
	HTS725032A7E630	0J26003	320GB	SATA 6Gb/s	2.5-inch	7200	32MB	NEW Q1 2012
	HTS725032A7E631	0J26043	320GB	SATA 6Gb/s	2.5-inch	7200	32MB	Bulk Data Encryption
	HTS725025A7E630	0J26002	250GB	SATA 6Gb/s	2.5-inch	7200	32MB	NEW Q1 2012
	HTS725025A7E631	0J26042	250GB	SATA 6Gb/s	2.5-inch	7200	32MB	Bulk Data Encryption
	HTS545050A7E381	0J23345	500GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height, Bulk Data Encryption
	HTS545032A7E381	0J23343	320GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height, Bulk Data Encryption
	HTS545025A7E381	0J23342	250GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height, Bulk Data Encryption
	HTS545050A7E385	0J23365	500GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height, TCG Opal
	HTS545032A7E385	0J23363	320GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height, TCG Opal
	HTS545025A7E385	0J23362	250GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height, TCG Opal
Travelstar 5K1000	HTS541010A9E680	0J22413	1TB	SATA 6Gb/s	2.5-inch	5400	8MB	New 1Q 2012
	HTS541075A9E680	0J22412	750GB	SATA 6Gb/s	2.5-inch	5400	8MB	New 1Q 2012
	HTS541064A9E680	0J22411	640GB	SATA 6Gb/s	2.5-inch	5400	8MB	New 1Q 2012
	HTS541010A9E681	0J15948	1TB	SATA 6Gb/s	2.5-inch	5400	8MB	Bulk Data Encryption, New 1Q 2012
	HTS541075A9E681	0J15947	750GB	SATA 6Gb/s	2.5-inch	5400	8MB	Bulk Data Encryption, New 1Q 2012
	HTS541064A9E681	0J15946	640GB	SATA 6Gb/s	2.5-inch	5400	8MB	Bulk Data Encryption, New 1Q 2012
	HTS541010A9E685	0J26233	1TB	SATA 6Gb/s	2.5-inch	5400	8MB	TCG Opal
	HTS541075A9E685	0J26232	750GB	SATA 6Gb/s	2.5-inch	5400	8MB	TCG Opal
	HTS541064A9E685	0J26231	640GB	SATA 6Gb/s	2.5-inch	5400	8MB	TCG Opal
Travelstar 5K750	HTS547575A9E384	0J11563	750GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTS547575A9E381	0J15233	750GB	SATA 3Gb/s	2.5-inch	5400	8MB	Bulk Data Encryption
	HTS547564A9E384	0J11562	640GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTS547564A9E381	0J15232	640GB	SATA 3Gb/s	2.5-inch	5400	8MB	Bulk Data Encryption
	HTS547550A9E384	0J11561	500GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTS547550A9E381	0J15231	500GB	SATA 3Gb/s	2.5-inch	5400	8MB	Bulk Data Encryption
	HTS547550A9E385	0J15251	500GB	SATA 3Gb/s	2.5-inch	5400	8MB	TCG Opal
	HTS547564A9E385	0J15252	640GB	SATA 3Gb/s	2.5-inch	5400	8MB	TCG Opal
	HTS547575A9E385	0J15253	750GB	SATA 3Gb/s	2.5-inch	5400	8MB	TCG Opal

Travelstar: All HGST mobile drives feature industry-leading power management for low power and longer battery life. The optional disk-level Bulk Data Encryption technology available on most models helps guard against data loss and piracy.

Product name	Model number	Part number/Alternate part numbers	Capacity	Interface	Form factor	RPM	Buffer	Other information
Travelstar Z5K500	HTS545050A7E380	0J11285	500GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height for greater design flexibility
	HTS545032A7E380	0J11283	320GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height for greater design flexibility
	HTS545025A7E380	0J11282	250GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm Z-height for greater design flexibility
Travelstar Z5K320	HTS543232A7A384	0A78603	320GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm z-height for greater design flexibility
	HTS543232A7A381	0J10253	320GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm z-height Bulk Data Encryption
	HTS543225A7A384	0A78602	250GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm z-height for greater design flexibility
	HTS543225A7A381	0J10252	250GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm z-height Bulk Data Encryption
	HTS543216A7A384	0A78601	160GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm z-height for greater design flexibility
	HTS543216A7A381	0J10251	160GB	SATA 3Gb/s	2.5-inch	5400	8MB	7mm z-height Bulk Data Encryption
	HTS543232A7A385	0J13103	320GB	SATA 3Gb/s	2.5-inch	5400	8MB	TCG Opal Encryption
	HTS543225A7A385	0J13102	250GB	SATA 3Gb/s	2.5-inch	5400	8MB	TCG Opal Encryption
Travelstar 5K500.B	HTS545050B9A300	0A57915	500GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTS545050B9A301	0A59505	500GB	SATA 3Gb/s	2.5-inch	5400	8MB	Bulk Data Encryption
	HTS545032B9A300	0A57913	320GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTS545032B9A301	0A59503	320GB	SATA 3Gb/s	2.5-inch	5400	8MB	Bulk Data Encryption
	HTS545025B9A300	0A57912	250GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTS545025B9A301	0A59502	250GB	SATA 3Gb/s	2.5-inch	5400	8MB	Bulk Data Encryption
	HTS545016B9A300	0A57911	160GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTS545016B9A301	0A59501	160GB	SATA 3Gb/s	2.5-inch	5400	8MB	Bulk Data Encryption

Travelstar Enhanced Availability: These drives include design enhancements for data intensive applications requiring round-the-clock operation such as industrial systems, network routers/telephony, point-of-sale terminals, web hosting, and video surveillance.

Product name	Model number	Part number/Alternate part numbers	Capacity	Interface	Form factor	RPM	Buffer	Other information
Travelstar 7K750	HTE727575A9E364	0J18723	750GB	SATA 3Gb/s	2.5-inch	7200	16MB	
	HTE727564A9E364	0J18722	640GB	SATA 3Gb/s	2.5-inch	7200	16MB	
	HTE727550A9E364	0J18721	500GB	SATA 3Gb/s	2.5-inch	7200	16MB	
Travelstar 5K750	HTE547575A9E384	0J15243	750GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTE547564A9E384	0J15242	640GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTE547550A9E384	0J15241	500GB	SATA 3Gb/s	2.5-inch	5400	8MB	
Travelstar 5K500.B	HTE545050B9A300	0A70395	500GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTE545032B9A300	0A70393	320GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTE545025B9A300	0A70392	250GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTE545016B9A300	0A70391	160GB	SATA 3Gb/s	2.5-inch	5400	8MB	
Travelstar Z7K320	HTE723232A7A364	0J13213	320GB	SATA 3Gb/s	2.5-inch	7200	16MB	
	HTE723225A7A364	0J13212	250GB	SATA 3Gb/s	2.5-inch	7200	16MB	
Travelstar Z5K320	HTE543232A7A384	0J13113	320GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTE543225A7A384	0J13112	250GB	SATA 3Gb/s	2.5-inch	5400	8MB	
	HTS543216A7A385	0J13101	160GB	SATA 3Gb/s	2.5-inch	5400	8MB	TCG Opal Encryption

Endurastar: Designed specifically to perform in extreme temperature environments. Ideal for automotive entertainment, surveillance and navigation applications. Now offering a much wider temperature range and industry-leading altitude specifications.

Product name	Model number	Part number/Alternate part numbers	Capacity	Interface	Form factor	RPM	Buffer	Other information
Endurastar J4K100	HEJ421010G9AT00	0A60189	100GB	PATA 100MB/s	2.5-inch	4200	8MB	Op temp -30° to +85° C
	HEJ421010G9SA00	0A60174	100GB	SATA 1.5Gb/s	2.5-inch	4200	8MB	Op temp -30° to +85° C
	HEJ421080G9AT00	0A60187	80GB	PATA 100MB/s	2.5-inch	4200	8MB	Op temp -30° to +85° C
	HEJ421080G9SA00	0A60172	80GB	SATA 1.5Gb/s	2.5-inch	4200	8MB	Op temp -30° to +85° C
	HEJ421040G9AT00	0A60185	40GB	PATA 100MB/s	2.5-inch	4200	8MB	Op temp -30° to +85° C
Endurastar N4K100	HEN421010G9AT00	0A60192	100GB	PATA 100MB/s	2.5-inch	4200	8MB	Op temp -20° to +75° C
	HEN421080G9AT00	0A60191	80GB	PATA 100MB/s	2.5-inch	4200	8MB	Op temp -20° to +75° C
	HEN421040G9AT00	0A60190	40GB	PATA 100MB/s	2.5-inch	4200	8MB	Op temp -20° to +75° C

Solid State Drives: Extreme performance and endurance for enterprise environments. Hitachi SSDs complement our enterprise HDD product line and support a robust, tiered-storage architecture for optimum application performance and workload management.

Product name	Model number	Part number/Alternate part numbers	Capacity	Interface	Form factor	RPM	Buffer	Other information
Ultrastar SSD400S	HUSSL4040ASS600	0B24936	400GB	SAS 6.0Gb	2.5-inch	N/A	N/A	SLC
	HUSSL4020ASS600	0B24935	200GB	SAS 6.0Gb	2.5-inch	N/A	N/A	SLC
	HUSSL4010ASS600	0B24934	100GB	SAS 6.0Gb	2.5-inch	N/A	N/A	SLC
	HUSSL4040ALF400	0B24940	400GB	FCAL 4.0Gb	3.5-inch	N/A	N/A	SLC
	HUSSL4020ALF400	0B24939	200GB	FCAL 4.0Gb	3.5-inch	N/A	N/A	SLC
	HUSSL4010ALF400	0B24938	100GB	FCAL 4.0Gb	3.5-inch	N/A	N/A	SLC
Ultrastar SSD400M	HUSML4040ASS600	0B26578	400GB	SAS 6.0Gb	2.5-inch	N/A	N/A	MLC
	HUSML4040ASS601	0B27498	400GB	SAS 6.0Gb	2.5-inch	N/A	N/A	MLC - TCG Encryption
	HUSML4020ASS600	0B26577	200GB	SAS 6.0Gb	2.5-inch	N/A	N/A	MLC
	HUSML4020ASS601	0B27497	200GB	SAS 6.0Gb	2.5-inch	N/A	N/A	MLC - TCG Encryption
Ultrastar SSD400S.B	HUSSL4040BSS600	0B27397	400GB	SAS 6Gb/s	2.5-inch	N/A	N/A	SLC
	HUSSL4040BSS601	0B27447	400GB	SAS 6Gb/s	2.5-inch	N/A	N/A	SLC- TCG Encryption
	HUSSL4020BSS600	0B27396	200GB	SAS 6Gb/s	2.5-inch	N/A	N/A	SLC
	HUSSL4020BSS601	0B27446	200GB	SAS 6Gb/s	2.5-inch	N/A	N/A	SLC- TCG Encryption
	HUSSL4010BSS600	0B27395	100GB	SAS 6Gb/s	2.5-inch	N/A	N/A	SLC
	HUSSL4010BSS601	0B27445	100GB	SAS 6Gb/s	2.5-inch	N/A	N/A	SLC- TCG Encryption

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One GB is equal to one billion bytes and one TB equals 1,000 GB (one trillion bytes). Actual capacity will vary depending on operating environment and formatting.

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Internal & External Hard Drives
Product Reference Guide

HGST
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External Hard Drives Product Highlights

Touro Desk
Solid storage, big capacities.

Simple storage expansion suited for all your photos, movies and documents, Touro Desk offers solid storage for all your important stuff. Effortless plug and play, with all the quality and reliability you expect from Hitachi.

Touro Mobile
Ready to go when you are.

Take all your files with you, with portable storage that fits well into your purse or briefcase. Plug and play simplicity powered by USB, which means there is no power cord to tie you down.

Touro Pro Desk
Two layers of backup, one great drive.

With not just one, but two layers of protection, Touro Pro Desk comes with local and 3 GB of cloud backup providing a great way to safeguard your files. Enjoy fast USB 3.0 transfer speeds and fast 7200 RPM performance to boot!

Touro Pro Mobile
Good things come in small packages.

Touro Pro Mobile not only fits in your pocket, it also comes with local and 3 GB of cloud backup. It's not only a great way to safeguard your files; it's also fast with USB 3.0 and fast 7200 RPM performance.

G-Technology by Hitachi
Performance. Style. Reliability.

G-Technology manufactures premium, high-quality external storage devices designed for professional content creators and Mac enthusiasts. Our products meet and exceed the demands and rigors of professional audio/ video editing and image production applications.

Online tools

Check out our Branded websites at:

www.touropro.com
www.g-technology.com

Touro: Solid storage for all your photos, movies, music and documents.
Tuoro Pro: Not just one, but two layers of data protection.

Product Name	Color	Model Number	Part Number	Capacity	Warranty	Form Factor	Inerface	Drive RPM	Other Information
Touro Desk Pro	Piano Black	HTOLDNB10001BBB	0S03236	1TB	2	3.5"	3.0	7200	NEW Q2 2011
		HTOLDNB20001BBB	0S03237	2TB	2	3.5"	3.0	7200	NEW Q2 2011
		HTOLDNB30001BBB	0S03238	3TB	2	3.5"	3.0	7200	NEW Q2 2011
Touro Mobile	Black	HTOLMXNA3201ABB	0S03115	320	1	2.5"	2.0	5400	NEW Q2 2011
		HTOLMXNA5001ABB	0S03121	500	1	2.5"	2.0	5400	NEW Q2 2011
		HTOLMXNA7501ABB	0S03127	750	1	2.5"	2.0	5400	NEW Q2 2011
Touro Mobile Pro	Piano Black	HTOLMNA5001BBB	0S03105	500	2	2.5"	3.0	7200	NEW Q2 2011
		HTOLMNA7501BBB	0S03110	750	2	2.5"	3.0	7200	NEW Q2 2011
Touro Desk	Black	HTOLDXNB10001BBB	0S03288	1TB	1	3.5"	2.0	5400	NEW Q2 2011
		HTOLDXNB20001BBB	0S03289	2TB	1	3.5"	2.0	5400	NEW Q2 2011
		HTOLDXNB30001BBB	0S03290	3TB	1	3.5"	2.0	5400	NEW Q2 2011
	Black	HTOLDX3NB40001ABB	0S03396	4TB	3	3.5"	3.0	5400	

Hitachi Internal Drive Kit (IDK): Quick and easy upgrade for your home computers

Product Name	Color	Model Number	Part Number	Capacity	Warranty	Form Factor	Other Information
IDK Deskstar	-	H3IK30003272SW	0S03208	3TB	3 Years	3.5-inch	7200 RPM
	-	H3IK20003272SP	0S02861	2TB	3 Years	3.5-inch	7200 RPM
	-	H3IK10003272SP	0S02860	1TB	3 Years	3.5-inch	7200 RPM
	-	H3IK5003272SP	0S02859	500GB	3 Years	3.5-inch	7200 RPM
		H3IK40003254SW	0S03364	4TB	3 Years	3.5-inch	CoolSpin
IDK Travelstar	-	H2IK5001672SP	0S02858	500GB	3 Years	2.5-inch	7200 RPM
	-	H2IK500854SP	0S02857	500GB	3 Years	2.5-inch	5400 RPM
	-	H2IK3201672SP	0S02856	320GB	3 Years	2.5-inch	7200 RPM
	-	H2IK320854SP	0S02855	320GB	3 Years	2.5-inch	5400 RPM
	-	H2IK2501672SP	0S02854	250GB	3 Years	2.5-inch	7200RPM
	-	H2IK250854SP	0S02853	250GB	3 Years	2.5-inch	5400RPM

G-Technology: High performance Single Drive

Product Name	Color	UPC	Part Number	Capacity	Warranty	Form Factor	Interface	Drive RPM	RAID (if applicable)
G-CONNECT	White	705487188806	0G02148	500	3	2.5	USB 2.0	5400	
G-DRIVE slim	Silver	705487186550	0G01891	320	3	2.5	USB 2.0	5400	
	Silver	705487187526	0G01995	500	3	2.5	USB 2.0	5400	
G-DRIVE mobile USB	Silver	705487188226	0G02013	750	3	2.5	USB 2.0	5400	
G-DRIVE mobile	Black	705487183368	0G01667	500	3	2.5	USB 2.0/FW 400/800	5400	
	Black	705487186703	0G01961	750	3	2.5	USB 2.0/FW 400/800	5400	
	Silver	705487185799	0G01817	500	3	2.5	USB 2.0/FW 400/800	5400	
	Silver	705487187502	0G01993	750	3	2.5	USB 2.0/FW 400/800	5400	
G-DRIVE mini	Silver	705487182910	0G01650	500	3	2.5	USB 2.0/FW 400/800	7200	
	Silver	705487188387	0G02131	750	3	2.5	USB 2.0/FW 400/800	7200	
G-DRIVE	Silver	705487181357	0G00199	1000	3	3.5	USB 2.0/FW 400/800	7200	
	Silver	705487181371	0G00203	2000	3	3.5	USB 2.0/FW 400/800	7200	
	Silver	705487186802	0G01973	3000	3	3.5	USB 2.0/FW 400/800	7200	

G-Technology: 2-bay high performance RAID systems

G-RAID mini	Silver	705487181456	0G00233	500	3	2.5	USB 2.0/FW 400/800/eSATA	7200	0, 1
	Silver	705487182934	0G01652	1000	3	2.5	USB 2.0/FW 400/800/eSATA	7200	0, 1
	Silver	705487188615	0G02134	1500	3	2.5	USB 2.0/ FW400/800/eSATA	7200	0, 1
G-RAID	Silver	705487181418	0G00271	2000	3	3.5	USB 2.0/FW 400/800/eSATA	7200	0
	Silver	705487181425	0G00273	4000	3	3.5	USB 2.0/FW 400/800/eSATA	7200	0

G-Technology: 4-bay high performance RAID systems

G-SPEED Q	Silver	705487185195	0G01792	4000	3	3.5	USB 2.0/FW 400/800/eSATA	7200	0. 5
	Silver	705487185201	0G01793	8000	3	3.5	USB 2.0/FW 400/800/eSATA	7200	0, 5
	Silver	705487188325	0G02053	12000	3	3.5	USB 2.0/ FW/400/800/eSATA	7200	0, 5
G-SPEED eS	Silver	705487186338	0G01867	4000	3	3.5	eSATA	7200	0, 1, 5, 10, JBOD
	Silver	705487186390	0G01871	8000	3	3.5	eSATA	7200	0, 1, 5, 10, JBOD
	Silver	705487188349	0G02055	12000	3	3.5	eSATA	7200	0, 1, 5, 10, JBOD
G-SPEED eS PRO	Silver	705487186345	0G01868	4000	3	3.5	mini-SAS	7200	0, 1, 3, 5, 6
	Silver	705487186376	0G01873	8000	3	3.5	mini-SAS	7200	0, 1, 3, 5, 6
	Silver	705487188363	0G02057	12000	3	3.5	mini-SAS	7200	0, 1, 3, 5, 6